

# weekofyear

May 15, 2022

## 1 Robomind Academy

The Academy has been used for four years now. Time to show some stats.

## 2 Overall usage

The 'stats\_weekofyear.gz' file contains usage data for all four years. The data contains only usage by students actually running Solutions to Challenges. Run-by spiders and other bots are not included.

```
[11]: import numpy as np
import pandas as pd
import matplotlib.pyplot as plt

# get the csv data
csv = pd.read_csv("../data/csv/stats_weekofyear.csv.gz")

# create multiindex year/week so we can use it to calculate datetime index
mi = csv.set_index(['year', 'weekofyear'])

# create new index
from datetime import datetime
newindex = []
for item in mi.index:
    str = f"{item[0]} {item[1]} 0"
    t = datetime.strptime(str, "%Y %W %w")
    newindex.append(t)

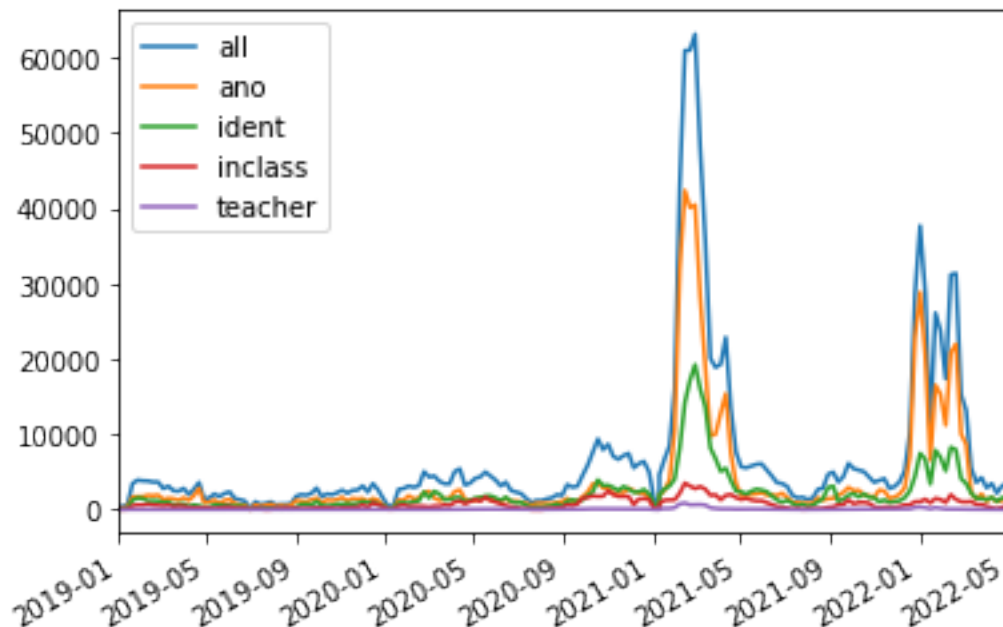
# assign new index to our csv
dt = csv.reset_index()
dt.index = newindex

# drop the year/week columns
del dt['year']
del dt['weekofyear']
del dt['index']

# plot and set the dims of x
```

```
axes = dt.plot()
axes.set_xlim(pd.Timestamp('2019-01-01'), pd.Timestamp('2022-05-07'))
```

[11]: (17897.0, 19119.0)



The plot shows that the overall usage remains the same over all the years. These seems to be some increase in the number of identified and in-class students as opposed to anonymous users.

```
[12]: import os
# os.system("jupyter nbconvert --to pdf --template hidecode weekofyear.ipynb")
os.system("jupyter nbconvert --to pdf weekofyear.ipynb")
```

```
[NbConvertApp] Converting notebook weekofyear.ipynb to pdf
[NbConvertApp] Support files will be in weekofyear_files/
[NbConvertApp] Making directory ./weekofyear_files
[NbConvertApp] Writing 24739 bytes to notebook.tex
[NbConvertApp] Building PDF
[NbConvertApp] Running xelatex 3 times: ['xelatex', 'notebook.tex', '-quiet']
[NbConvertApp] Running bibtex 1 time: ['bibtex', 'notebook']
[NbConvertApp] WARNING | bibtex had problems, most likely because there were no
citations
[NbConvertApp] PDF successfully created
[NbConvertApp] Writing 38752 bytes to weekofyear.pdf
```

[12]: 0